

ALTERNATIVE 2 **CONCRETE CHANNEL WITH NATIVE DESERTSCAPED OVERBANKS**



LEGEND

- CONCRETE CHANNEL & TRAILS
- CULVERTS

ALTERNATIVE 2 DESCRIPTION

This alternative consists of concrete channel improvements with native desertscaped overbank and trails from the White Tanks Flood Retarding Structure #3 to Olive Avenue including culverts at both Northern and Olive Avenues.

VISUAL CHARACTERISTICS

- Varied width concrete lined channel with native desertscaped buffer strips, parallel to the west side of the existing Beardsley Canal.
- Access control barrier railing will be placed along both sides of the concrete channel as a safety measure.
- Design and grading of the native desertscaped buffer strips will attempt to re-naturalize these areas to be reflective of the topography and character of nearby natural washes.
- Designed to provide opportunities for future recreational trail linkages.
- Revegetation and/or restoration will be accomplished using native seed mixes and select tree plantings.
- The native desertpalette includes native Sonoran desert plant species patterned and arranged to reflect the density and patterns found in the washes and foothills of the White Tank Mountains.

OPPORTUNITIES

- Provides 100-year flood protection to the properties east of Beardsley Canal by improving Beardsley Canal Wash Corridor.
- Provides a native desertscaped open space corridor including equestrian and pedestrian trails from the White Tanks Flood Retarding Structure #3 to Waterfall Wash.
- Provides a 100-year crossing across the wash at both Northern and Olive Avenues.

CONSTRAINTS

- Requires 28 acres of right-of-way/easements through Sonoran Ridge Estates and State Land Department. Impacts some lots through Sonoran Ridge Estates.
- Trail access limited to narrow corridor along west side of Beardsley Canal.
- Requires a large concrete channel along the corridor.
- Requires average effort for the maintenance.
- Significant area of natural desert disturbed.
- Creates significant construction impact to the neighborhood.
- Second highest cost.

PROJECT COST

\$13 million

NORTH INLET CHANNEL
MARICOPA COUNTY
ARIZONA

WOOD, PATEL & ASSOCIATES, INC.
 Civil Engineers, Hydrologists and
 Lead Surveyors
 (602) 335-8500